

decided economic benefit as forage plants and in gardens. Thus, no single easy solution to the problem of invasive alien plants exists. tors that readily invade natural habitats. Competition between plant species is part of any natural habitat, but introduction of invasive alien Therefore, VNPS and DCR have combined their resources to confront this major threat to the ecological integrity of Virginia's landscapes alien plants are serious agricultural weeds and some are toxic when consumed by livestock. Other invasive aliens, however, have a species disrupts intricate balances and relationships evolved over millennia between native plants and their communities. Some invasive plant habitats, especially those that support rare, threatened or endangered species. Many alien plants have become aggressive competi-The Virginia Native Plant Society (VNPS) and the Department of Conservation and Recreation (DCR) share a commitment to protect native

Goals of the Project

Given the complexity of the problems posed by invasive alien plants, VNPS and DCR have set forth the following goals:

- Identify alien plant species that have potential to become invasive in Virginia
- Document threats posed by specific invasive alien plant species.
- Educate the public about the issue of invasive alien plant species and the use of native plants for conservation, restoration and landscaping purposes.
- Coordinate with other agencies and organizations to identify mutual concerns and develop reasonable solutions to the problem of invasive alien plants
- Develop and use sound practices for control of invasive alien plants in natural areas

How You Can Help

- Use native plant species grown from local stock for conservation and landscaping purposes whenever possible. See our publications on Native Plants for Conservation, Restoration, and Landscaping on the DCR website
- When using allen plants, avoid highly invasive species. See the list in this brochure and ask about our fact sheets on specific invasive alien plants, or view them on the DCR Natural Heritage or Virginia Native Plant Society web sites:

http://www.vnps.org

Support public policies that restrict introduction of invasive alien plants and get involved in organizations that work to protect

For more information, contact the Department of Conservation and Recreation or the Virginia Native Plant Society.



CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES Department of Conservation & Recreation

(804) 786-7951; http://www.state.va.us/dnh/





culture and contribute immensely to farming, gardening tally into a region far from their native habitat. For the most species, are introduced by people intentionally or acciden-Alien plants, also referred to as exotic or non-indigenous have displayed unexpected growth tendencies. landscaping and soil stabilization. Nevertheless, among part, alien plant species form an important part of our housands of plant species introduced to our area, some

of vascular plants that grow in the wild in Virginia, some throughout North America. Of the estimated 2,500 species changed the composition of native plant communities degrading native habitat. others readily invade natural and semi-natural landscapes restricted to roadsides and other heavily disturbed sites, 350 are not native to the state. While many of these are ntroductions since European settlement have substantially While most alien plant species do not persist in the wild

Invasive alien plant species typically exhibit the following

- Rapid growth and maturity
- Prolific seed production
- Highly successful seed dispersal, germination and
- Rampant vegetative spread
- Ability to outcompete native species
- High cost to remove or control

mate native species, as with the chestnut blight are most vulnerable to invasion, but the most aggressive native pathogens, fungi or other organisms that can decidisease that keep them in balance in their native habitats species can infest even intact ecosystems. Invasive alien Native plant communities fragmented by human disturbance They further threaten biodiversity when they harbor nonolants have few or lack natural controls such as insects and Invasive alien plants often thrive on disturbed sites.

10/03

Shout the List

does not prohibit use of the plant species listed. and Recreation (DCR) to inform land managers of potential invasive behavior in some situations. It is not regulatory and risks associated with certain plant species known to exhibit This list is published by Virginia Department of Conservation

> areas; impacts on other species; potential to disperse and rank each species include: cumulative impacts on natural criteria to assess the invasiveness of a plant. Factors used to difficulty to manage. invade natural landscapes; distribution and abundance; and DCR and Virginia Native Plant Society use detailed

Invasiveness Ranking

- Highly invasive species exhibit the most invasive tendencies in natural areas and native plant habitats. They may establish readily in natural systems and spread rapidly in plant community composition and structure. They disrupt ecosystem processes and cause major alterations
- Moderately invasive species may have minor influence on species usually require a minor disturbance to become threatening all species found in the community. These may become dominant in the understory layer without and affect community structure in at least one layer. They ecosystem processes, alter plant community composition
- Occasionally invasive species generally do not affect species. They often grow in severely disturbed areas. composition by out-competing one or more native plant road construction can lead to their presence. These Disturbances such as ice storm damage, wind-throw or ecosystem processes but may alter plant community species spread slowly or not at all from disturbed sites

combines the Blue Ridge, Ridge and Valley, and Appalachian regions: Coastal Plain, Piedmont and Mountains. The For the purpose of this list, the state is divided into three physiographic province boundaries. The Mountain region Coastal Plain and Piedmont regions follow conventional Plateau physiographic provinces

Habitat Requirements

meant to give only a general indication of habitat adaptations for these plants. The categories for light and soil requirements are broad and

lien plant species in Virginia

This list was developed in a cooperative project between the Virginia Department of Conservation and Recreation's

Division of Natural Heritage and the Virginia Native Plant Society

Kev										
Geographic Region	Light Preferences	eren	ces			So	il M	Soil Moisture	re	
M=Mountain	F=full sun	n				H=	H=hydric	lric		
P=Piedmont	P=partial sun	lsun				Z	M=mesic	Sic		
C=Coastal Plain	S=shade					×=	X=xeric	C		
SCIENTIFIC NAME	COMMON NAME	70	REGION	_		TIGHT		×	MOISTURE	Ή
		3	ס	0	П	٦	S	I	3	×
Highly Invasive Species										
Ailanthus altissima	Tree-of-heaven	•	•	•	•	•			•	
Alternanthera philoxeroides	Alligator weed			•	•	•		•		
Ampelopsis brevipedunculata	Porcelain-berry		•		•	•	•		•	
Carex kobomugi	Asiatic sand sedge			•	•	•				•
Celastrus orbiculata	Oriental bittersweet	• •	•	•	•	• •	•		•	•
Centaurea biebersteinii	Spotted knapweed	•	•	•	•	•				•
Cirsium arvense	Canada thistle	•	•	•	•				•	
Dioscorea oppositifolia	Chinese yam	•	•	•		•	•		•	
Elaeagnus umbellata	Autumn olive	•	•	•	•	•			•	
Hydrilla verticillata	Hydrilla		•	•	•	•	•	•	•	
Imperata cylindrica	Cogon grass			•		•	•		•	
Lespedeza cuneata	Chinese lespedeza	•	•		•				•	
Ligustrum sinense	Chinese privet	•	•	•	1	•	•		•	
Lonicera morrowii	Morrow's honeysuckle	•	•		•	•	•		•	
Lonicera standishii	Standish's honeysuckle	•	•			•	•		•	
Lythrum salicaria	Purple loosestrife	•	•	•	•			•	•	
Murdannia keisak	Aneilema		•	•	•	•	•	•	•	
Myriophyllum aquaticum	Parrot feather	•	•	•	•			•		
Myriophyllum spicatum	European water-milfoil	•	•	•	•			•		
Polygonum cuspidatum	Japanese knotweed	•	•	•	•	•		•	•	
Polygonum perfoliatum	Mile-a-minute		•		•	•	•		•	
Pueraria lobata (P. montana)	Kudzu vine	•	•	•	•	•	•		•	
Ranunculus ficaria	Lesser celandine	•	•	•	·	•	•		•	
Rubus phoenicolasius	Wineberry	•	•	•		•	•		•	
Sorghum halenense	Johnson-grass	•	•	•	•	•			•	

• • • • •	• •	• •	•	•	•	• •	Japanese spiraea Common chickweed	Spiraea japonica Stellaria media
	•	•			•	•	Japanese spiraea	Spiraea japonica
							Giant toxtail	
		•	•	•	•		D. 14-11-11	Setaria faberi
•			•		•	•	Curled dock	Rumex crispus
		•	•	•	•	•	Red sorrel	Rumex acetosella
•		•	•	•	•	•	White poplar	Populus alba
•	•	•	•	•	•	•	Bristled knotweed	Polygonum cespitosum
•	•	•	•	•	•	•	Rough bluegrass	Poa trivialis
•	•	•	•	•	•	•	Canada bluegrass	Poa compressa
•		•	•	•	•		Golden bamboo	Phyllostachys aurea
•		•	•	•	•	•	Timothy	Phleum pratense
•		•	•	•	•	•	Princess tree	Paulownia tomentosa
•		•	•	•	•		China-berry	Melia azedarach
•	•	•	•	•	•	•	Moneywort	Lysimachia nummularia
•		•	•		•	•	Tartarian honeysuckle	Lonicera tatarica
•		•			•	•	Amur honeysuckle	Lonicera maackii
•	•			•	•		Blunt-leaved privet	Ligustrum obtusifolium
•		•	•	•	•	•	Yellow flag	Iris pseudacorus
•			•	•	•	•	Common morning-glory	Ipomoea purpurea
•		•	•	•	•	•	lvy-leaved morning-glory	Ipomoea hederacea
•	•	•	•	•	•	•	Japanese hops	Humulus japonicus
•		•	•	•	•	•	Velvet-grass	Holcus lanatus
+	•	•	•	•	•		English ivy	Hedera helix
•	•	•		•	•	•	Gill-over-me-ground	Glecnoma nederacea
•		Ī	•	•	•		rennel	roeniculum vulgare
•		•	•	•	•	•	I all tescue	Festuca elatior (F. pratensis)
•	•	•		•			winiercreeper	Edonymus romaner
•		•	•	•	•	•	Brazilian water-weed	Egena densa
, ,							Collinon lease	Dipsacus sylvesins
•		T	•	•	•	•	Common tegral	Diosocial sylvastris
•			•			•	Cut-leaf teasel	Dinsacus laciniatus
•		•	•	•	•	•	Field-bindweed	Convolvulus arvensis
•			•	•	•	•	Bull-thistle	Cirsium vulgare
•		•	•		•	•	Brown knapweed	Centaurea jacea
•		•	•	•	•		Sickle pod	Cassia obtusifolia
•			•	•	•	•	Musk thistle	Carduus nutans
•	•	•	•	•	•	•	Japanese barberry	Berberis thunbergii
•		•	•	•	•		Giant reed	Arundo donax
•	•	•	•	•	•	•	Jointed grass	Arthraxon hispidus
•		•	•	•	•	•	Mugwort	Artemisia vulgaris
•		•	•	•	•	•	Wild onion	Allium vineale
•		•	•	•	•	•	Mimosa	Albizia julibrissin
•	•	•	•	•	•		Five-leaf akebia	Akebia quinata
•		•	•		•	•	Rhode Island bent-grass	Agrostis tenuis
•		•	•	•	•	•	Quack grass	Agropyron repens
•		•	•	•	•	•	Norway maple	Acer platanoides
		1						Moderately Invasive Species
74.	(-	-	(-	141		
Ι Δ ×	Λ	σ	п)	U	3		
MOISTURE		LIGHT		Z	REGION	70	COMMON NAME	SCIENTIFIC NAME

SCIENTIFIC NAME	COMMON NAME	R	REGION	_		LIGHT		MC	MOISTURE	ñ
		≥	ס	n	п	ס	S	ェ	≥	×
Occasionally Invasive Species										
Agrostis gigantea	Redtop	•	•	•	•	•			•	
Ajuga reptans	Bugleweed	•	•	•	•	•			•	•
Arrhenatherum elatius	Oatgrass	•	•	•	•	•			•	
Commelina communis	Common dayflower	•	•	•	•	•			•	
Conium maculatum	Poison hemlock	•	•	•	•	•			•	
Coronilla varia	Crown-vetch	•	•	•	•				•	•
Dactylis glomerata	Orchard grass	•	•	•	•	•			•	
Elaeagnus angustifolia	Russian olive	•	•	•	•	•			•	
Elaeagnus pungens	Thorny elaeagnus		•	•		•			•	
Eragrostis curvula	Weeping lovegrass	•	•	•	•				•	•
Euphorbia esula	Leafy spurge	•	•			•	•		•	
pomoea coccinea	Red morning-glory	•	•	•	•				•	
Lapsana communis	Nipplewort	•			•	•			•	
Lespedeza bicolor	Shrubby bushclover	•	•	•	•	•			•	
Lonicera fragrantissima	Sweet breath of spring		•		•	•			•	
onicera x bella	Bell's honeysuckle	•	•	•	•	•			•	
Lotus comiculatus	Birdsfoot trefoil	•	•	•	•	•			•	•
Melilotus alba	White sweet clover	•	•	•	•	•			•	
Melilotus officinalis	Yellow sweet clover	•	•	•	•	•			•	
Miscanthus sinensis	Silver grass	•	•	•	•	•			•	
Morus alba	White mulberry	•	•	•	•	•			•	
Pastinaca sativa	Wild parsnip	•	•	•	•	•			•	
Perilla frutescens	Beefsteak plant	•	•	•		٠	٠		٠	
Trapa natans	Water chestnut			•	•			•	•	
Ulmus pumila	Siberian elm		•		•	•			•	
Viburnum dilatatum	Linden viburnum		•		•	•			•	
Vinca minor & V. major	Periwinkle	•	•	•	•	•	•		•	
Wisteria floribunda	Japanese wisteria			٠		•	٠		•	L